

# ASSIGNMENT 4

Textbook Assignment: "Associated Launching Equipment," Pages 5-1 through 5-23; and "The Aircraft Launch and Recovery Equipment Maintenance Program (ALREMP)," Pages 6-1 through 6-18.

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- 4-1. The Mk 7 Mod 0/2 JBD consists of a total of how many panel assemblies?
  - 1. Six
  - 2. Two
  - 3. Eight
  - 4. Four
- 4-2. A total of how many hydraulic cylinders are used to raise and lower each pair of JBD panels?
  - 1. Six
  - 2. Two
  - 3. Eight
  - 4. Four
- 4-3. The removable module assemblies are attached to the JBD panel assembly by what devices?
  - 1. Welds
  - 2. Clamps
  - 3. Edge-fitted brackets
  - 4. Screws
- 4-4. What devices control the flow of cooling water through the Mk 7 JBD panel module assemblies?
  - 1. Throttle valves
  - 2. Vacuum breaker valves
  - 3. Orifices
  - 4. Manual hand valves
- 4-5. The JBD cooling water must be maintained at what minimum pressure?
  - 1. 60 psi
  - 2. 70 psi
  - 3. 80 psi
  - 4. 90 psi
- 4-6. The emergency lowering hydraulic bypass lines permit fluid to bypass what component of the JBD hydraulic system?
  - 1. The lowering side of the hydraulic cylinder
  - 2. The solenoid manual override
  - 3. The stack valve
  - 4. The gravity tank
- 4-7. JBD control is transferred from the portable control box to the auxiliary control panel by what switch?
  - 1. A manual override switch
  - 2. The defeat interlock switch
  - 3. The portable control box suspend switch
  - 4. A rotary type switch
- 4-8. In the event of an electrical power failure, how may the Mk 7 JBDs be raised or lowered?
  - 1. By the auxiliary control panel
  - 2. By the portable control box group UP-DOWN toggle switch
  - 3. By the manual override on the four-way control valves
  - 4. By a tow tractor and cable
- 4-9. When it is necessary to remove a component from the hydraulic system, you should cap or plug the open lines to prevent foreign matter contamination.
  - 1. True
  - 2. False
- 4-10. What is/are the advantage(s) of the nose gear launch system over the conventional launch system?
  - 1. It permits positive engagement of the aircraft to the catapult
  - 2. It minimizes the number of personnel required to be near the aircraft during hookup operations
  - 3. It permits automatic engagement of the aircraft to the catapult
  - 4. All of the above
- 4-11. Inserts in the NGL guide track ensure that the aircraft launch bar makes positive contact with which of the following components?
  - 1. The slide
  - 2. The buffer hook actuator roller
  - 3. The track seal
  - 4. The soft-stop buffer

- 4-12. What component of the Mk 2 NGL system engages the aircraft holdback bar as the aircraft taxis into position for launch?
1. The buffer hook
  2. The slide
  3. The launch actuator reset assembly
  4. The buffer cylinder
- 4-13. During NGL operation, when the slide assembly is forward, what device holds the reset-assembly slider above the surface of the guide track deck housing cavity?
1. The slider actuating spring
  2. The actuator assembly
  3. The buffer hook
  4. The shuttle spreader
- 4-14. Which of the following statements best describes the NGL shock absorber assembly?
1. A self-contained, sealed unit that requires no maintenance or adjustments
  2. A hydraulically operated, three-cylinder, buffer unit
  3. A hydraulically operated buffer unit that uses tube orifices to meter fluid flow
  4. A piston-type accumulator energy absorber
- 4-15. What device controls the flow of hydraulic fluid supplied from the catapult hydraulic system to the NGL buffer cylinder?
1. The NGL dump valves
  2. The NGL pilot valve
  3. The NGL valve manifold
  4. The NGL buffer cylinder control valve
- 4-16. ALRE maintenance functions are divided into what total number of maintenance levels?
1. One
  2. Two
  3. Three #
  4. Four
- 4-17. Maintenance tasks are assigned according to the complexity, scope, and range of the work to be performed.
1. True
  2. False
- 4-18. Which of the following is NOT a function of organizational maintenance?
1. Inspection, operation, and servicing as defined and required by PMS
  2. Corrective and preventive maintenance
  3. Record keeping and report writing
  4. Type III calibration of designated equipment
- 4-19. What maintenance activity performs type III calibration?
1. Organizational maintenance
  2. Intermediate maintenance
  3. Depot maintenance
  4. Navy ASO
- 4-20. What type of maintenance is normally accomplished by the catapult and arresting gear crew members?
1. Upkeep
  2. Overhaul
  3. Intermediate maintenance
  4. Depot maintenance
- 4-21. In the V-2 maintenance organization, who has the authority to certify that maintenance actions have been completed and that the equipment can be returned to an operational status?
1. The division officer or maintenance officer
  2. The catapult officer or recovery officer
  3. The maintenance officer or maintenance control chief
  4. The maintenance officer only
- 4-22. Which of the following personnel are responsible for the day-to-day operations of the work center, the nomination of qualified personnel to be collateral duty inspectors, and the assignment of work center personnel to specific maintenance tasks?
1. The maintenance officer, work center group supervisors, and work center supervisors
  2. Work center group supervisors and work center supervisors only
  3. Work center group supervisors, the QA work center supervisor, and the maintenance support work center supervisor
  4. The maintenance officer, the maintenance control chief, and work center group supervisors

- 4-23. Which of the following VIDs boards provides information pertaining to the divisions' overall maintenance status?
1. The maintenance support work center board
  2. The Quality Assurance work center board
  3. The maintenance control work center board
  4. The material control work center board
- 4-24. A total of how many information display columns are required on both the maintenance control and all other work center VIDs boards?
1. Seven
  2. Six
  3. Five
  4. Four
- 4-25. What color is used to indicate limited capability on the Maintenance Action Form (MAF) cards?
1. Blue
  2. Red
  3. Black
  4. Yellow
- 4-26. On the MAF card, what color is used to indicate the equipment is out of commission?
1. Yellow
  2. Red
  3. Black
  4. Blue
- 4-27. The priority section of the MAF card can be color coded to indicate the maintenance status and operational capability of specific equipment. What status is indicated if no color code is used in the priority section?
1. The equipment is out of commission
  2. The equipment may be used, but has only limited capability
  3. The maintenance is routine and does not affect equipment capability
  4. The maintenance has been completed and the equipment only needs a functional check to be returned to full operational capability
- 4-28. On the MAF card, what color is used for a completed maintenance action awaiting a functional check?
1. Blue
  2. Red
  3. Black
  4. Yellow
- 4-29. What copy, if any, of the completed ALRE MAF is retained by the maintenance responsible work center?
1. One
  2. Two
  3. Three
  4. None
- 4-30. Who is responsible for updating and maintaining the work center maintenance requirement status board?
1. The maintenance control chief
  2. The work center group supervisor
  3. The maintenance control officer
  4. The work center supervisor
- 4-31. What is the primary role of the V-2 maintenance support branch?
1. To manage the division tool control program
  2. To provide technical expertise to operating work centers
  3. To reduce man-hours required to complete maintenance tasks
  4. To manage the division man-hour accounting program
- 4-32. When the Maintenance Support (MS) branch assigns personnel to assist in maintenance performed by the operating work center, who documents the MS man-hours?
1. Maintenance Control
  2. Maintenance Support
  3. The QA branch
  4. The operating work center
- 4-33. The tool control program was established to reduce the potential of tool-related foreign object damage and to reduce the cost of tool replacement.
1. True
  2. False

- 4-34. Which of the following is NOT a benefit of the tool control program?
1. Reduced tool replacement costs
  2. Reduced equipment failures
  3. Reduced tool pilferage
  4. Assurance of tool availability to perform maintenance
- 4-35. Detailed information concerning the ALRE TCP can be found in what publication?
1. NAEC Miscellaneous Report 51/OR732
  2. NAEC Report No. CD-1025
  3. NAVAIR 80R-14
  4. OPNAVINST 4790.4B
- 4-36. The achievement of a properly functioning quality assurance program exhibits which of the following characteristics?
1. The program is managed by the maintenance control officer, maintenance control chief, and work center group supervisors
  2. Eliminates unnecessary man-hour and dollar expenses
  3. Uses prevention, knowledge, and special skills
  4. Stresses the gathering and maintaining of information on quality assurance
- 4-37. What is the basis of maintenance and operational decisions through the Quality Assurance (QA) program?
1. Memory
  2. Intuition
  3. Factual data
  4. The maintenance officer's experience
- 4-38. When it becomes necessary to augment the quality assurance branch with CDQAIs, they must be designated in writing by which of the following officers?
1. The commanding officer
  2. The air department officer
  3. The V-2 division officer
  4. The V-2 maintenance officer
- 4-39. When it is necessary to augment the QA branch with Collateral Duty QA inspectors (CDQAIs) below the paygrade of E-6 for more than 90 days, who must approve the continued augmentation?
1. The maintenance officer
  2. The division officer
  3. The commanding officer
  4. The type commander
- 4-40. Who is most directly concerned with, and responsible for, quality in workmanship?
1. The maintenance officer
  2. The assigned quality assurance inspector
  3. The work center supervisor
  4. The equipment operator
- 4-41. Which of the following duties is NOT a responsibility of the quality assurance branch?
1. To prepare maintenance instructions
  2. To provide technical assistance to collateral duty inspectors
  3. To manage the dispersed technical publications libraries
  4. To develop audit checklists
- 4-42. CDIs are designated in writing by which of the following officers?
1. The air department officer
  2. The executive officer
  3. The commanding officer
  4. The maintenance officer
- 4-43. How often are work center audits conducted?
1. Weekly
  2. Monthly
  3. Quarterly
  4. Semi-annually
- 4-44. What type of audit is conducted to evaluate a specific maintenance task?
1. Work center audit
  2. Special audit
  3. Internal audit
  4. Type commander audit

- 4-45. The quality assurance branch uses special audits for which of the following reasons?
1. To evaluate the overall quality of performance of each work center
  2. To evaluate tool control program compliance
  3. To monitor programs specifically assigned to the QA branch for monitoring
  4. To establish follow-up procedures to ensure that previous audit discrepancies have been corrected

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